GRAMENITSKIY, IM.

56-4-43/52

AUTHOR: TITLE:

GRAMENITSKIY, I.M., ZHDANOV, G.B., ZAMCHALOVA, YE.A., SHCHERRAROVA, M.N. Nuclear Interaction in a Photoemulsion at an Energy of 8.10

(Yaderneye vsaimedeystviye v feteemulsii pri energii 8.1013 eV.

Russian).

PERIODICAL:

Zhurnal Eksperim. i Teeret. fiziki, 1957, Vel 32, Nr 4, pp 936-938

(U.S.S.R.)

ABSTRACT:

In a stack of baseless 600 of thick photoemulsion of the type ILFORD G5 (which in 1955 was expessed to light for 6 hours in the Po Valley (?) at a height of 25,5 km) a nuclear interaction of the type 1 + 37 α was discovered. The angular distribution of secondary charged particles was measured, on which eccasion the small angles 0 were calculated from the center of the axial symmetry of the narrwe cone of the particle. In order to be able to obtain the angular distribution of the penetrating particles immediately in the center of mass system of the colliding particles, the order in tg 0 was chosen as the angular variable. The differential angular distribution obtained after averaging ever three independent measurements is represented in a diagram. The necessary condition for the determinability of the primary energy (resulting) from the angular distribution is the symmetry of this distribution in the center of mass system with respect to the angle $\theta = \pi/2$. An examination of the angular distribution found here by means of the so-called γ -test confirms the symmetry of this

Card 1/3

.56-4-43/52

Nuclear Interaction in a Photoemulsion at an Energy of 8.10¹³ eV. distribution with 90% accuracy.

Starting from the symmetry of the angular distribution, the authors abtained some, partly independent, possibilities of determination of the energy $\mathbf{E}_{\mathbf{C}}$ from the values of $\mathbf{I}_{\mathbf{C}}$ for each pair of particles which are symmetric with respect to the angle 0 1/2 Thus, they obtained for the energy of the primary particle in the center of mass system ($\mathbf{E}_{\mathbf{C}}$) and in the laboratory system the following values:

$$E_0 = (200^{+50}_{-40})\text{Mc}^2$$
, $E_0 = (8^{+4}_{-3} \cdot 10^{13} \text{ eV per nucleon.}$

With a tetal length of path of 110 cm of the secondary particles in the photoemulsion three cases of secondary interactions were observed; their characteristics are shown together in a table. A further indirect method for the approximation-like measurement of the transversal mementa of the shower particles is the determination of the emergies and the directions of flight of these photons which occur on the occasion of the decay of the neutral pions. The values of the transversal mementa measured by means of two independent methods sufficiently agree with one another and furnish

Card 2/3

Nuclear Interaction in a Photoemulsion a an Energy of 8.10¹³ eV. the average value \bar{p}_1 244c and a scattering of Λ \bar{p}_1 $\sim \bar{p}_1$ around the average value. (1 illustration and 2 tables).

ASSOCIATION:

Physical Institute "P.N. LEBEDEY" of the Academy of Science of

the U.S.S.R.

PRESENTED BY:

SUBMITTED: AVAILABLE: January 12, 1957 Library of Congress

Card 3/3

GRAMENIT

AUTHOR:

GRAMENITSKIY,I.M., ZHDANOV,G.B., TRETYAKOVA,M.I.

56-7-50/66

TITLE:

SHCHERBAKOVA, M.N. The Soft Component of an Electron Nuclear Shower at an Energy of

. 10¹⁴ eV. (Myagkaya komponenta elektronno - yadernogo

pri energii poryadka 10¹⁴ eV)

PERIODICAL:

Zhurnal Eksperim. i Teoret. Fiziki, 1957, Vol 33, Nr 7, pp 282-283

(U.S.S.R.)

ABSTRACT:

The spatial and energy distribution of electron pairs and the spatial distribution of electrons are shown in form of tables. The spatial distribution of the particles of the soft components in the direction which is vertical to the axis of the shower in a

distance of t = 2 can be represented by the function: - 1,62 ± 0,05 r = t . (With 2 Tables, 1 Illustration f(r) ~ r

and 2 Slavio References).

ASSOCIATION:

Physical Institute "P.N.LEBEDEV" of the Academy of Sciences of the U.S.S.R.) (Fizioheskiy institut im. P.N.Lebedeva Akademii nauk

SSSR)

PRESENTED BY:

SUBMITTED:

2.4.1957

AVAILABLE:

Library of Congress

Card 1/1

GRAMENITSKIY I.M.

89-3-7/30

AUTHORS:

Bogachev, N. P. , Van Shu-Fen', Gramenitskiy, I. M., Kirilleva, L. F. , Lebedev, R. M. , Lyubimov, V. B. , Markov, P. K. , Merekov, Yu. P. , Podgoretskiy, M. I. , Sidorov, V. M. , Tolstov, K. D. , Shafranova, M. G.

TITLE:

The Interaction of 9 Bev Protons With Nuclei in Photo-Emulsion (Vzaimodeystviye protonov s energiyey 9 Bev s yadrami foto-emul*sii)

PERIODICAL:

Atomnaya Energiya, 1958, Vol. 4, Nr 3, pp. 281 - 284 (USSR)

ABSTRACT:

The photoemulsion H**N** ϕ **N** \rightarrow P with a layer of about 450 μ was irradiated with protons within and out of the vacuum chamber of the 9 Bev synchrophasotron. The mean range of 9 Bev protons for an interaction is 34.7 ± 1.5 cm. (The scattering for angles below 5 was not taken into account). 258 cases of a nuclear interaction were observed. The mean number of fast particles in generated in a process of interaction amounts to 3.4 ± 0.7 . The angular distribution of these particles shows a clearly preferred forward motion. The mean number of black and grey traces N_n - the recoil nuclei

Card 1/2

89-3-7/30

The Interaction of 9 Bev Protons With Nuclei in Photo-Emulsion

not being considered - is $8,3\pm0,5$. From 249 found stars 18 can be considered to constitute an interaction of the initial protons with "free" or "quasifree" protons.

13 stars can be considered to represent an interaction between protons and "quasifree" neutrons. All of them have an odd number of traces, and in the point of formation of the star β -traces can be observed. The mean number of fast particles in these 13 star traces is 3,1 \pm 0,3. There are 5 figures, 1 table, and 7 references, 1 of which is Slavic.

SUBMITTED:

December 16, 1957

AVAILABLE:

Library of Congress

1. Photoemulsions-Proton irradiation 2. Vacuum chambers-Applications

3. Particles-Distribution

Card 2/2

21(7) AUTHORS:

Gramenitskiy, I. M., Danysh, M. Ya., Lyubimov, V. B.,

Podgoretskiy, M. I., Tuvdendorzh, D.

TITLE:

Concerning the Problem of the Angular Correlation Between the Secondary Particles Which Are Generated in Nuclear Collisions

of High Energy (K voprosu ob uglovoy korretatsii mezhdu vtorichnymi chastitsami, obrazuyushchimisya v yadernykh

stolknoveniyakh vysokoy energii)

PERIODICAL:

Zhurnal eksperimental noy i teoreticheskoy fiziki, 1958,

Vol 35, Nr 2(8), pp 552-553 (USSR)

ABSTRACT:

The above-mentioned relativistic particles were generated by the interaction of protons (\sim 9 BeV) with the nuclei of the photoemulsion. The authors measured the coefficient of the correlation between the number of the particles which fly away at different spatial angles. For the correlation coefficient R = $n_1 n_2 - n_1 n_2$ the expression R = $p_1 p_2 (D_n - \bar{n})$

may be obtained. n₁ and n₂ denote the numbers of the secondary

relativistic particles in any separate star the emission

Card 1/3

directions of which are within the spatial angles Ω_1 and Ω_2 .

SOV/56-35-2-56/60

Concerning the Problem of the Angular Correlation Between the Secondary Particles Which Are Generated in Nuclear Collisions of High Energy

> n denotes the average number of the particle in the star and Dn - the dispersion of the particle number. In order to measure the value of R, the authors used 450 nuclear spallations which were found by examination of an emulsion chamber consisting of emulsions MKFI $-\langle\!\langle R \rangle\!\rangle$ with a density of 400 μ . This chamber was irradiated by the internal beam of the synchrophasotron of the Ob"yedinennyy institut yadernykh issledovaniy (United Institute of Nuclear Research). The investigation was carried out along the tracks made by the primary protons. For \overline{D}_n and \overline{n} the values 3,64 \pm 0,15 and 3,23 \pm 0,09 respectively, were found. Further investigations are based on the measurement of the quantity $Q = \overline{R} - p_1 p_2 (D_n - \overline{n})$ for different values of the angles Ω_1 and Ω_2 . The results of these measurements are given in a table. According to these results, there is no total statistical independence between the emission directions of the secondary particles. 6 "narrow pairs" (uzkaya para) were found by the analysis of 375 spal lations. The investigation of the correlations in the direc-

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SOV/56-35-2-56/60 Concerning the Problem of the Angular Correlation Between the Secondary Particles Which Are Generated in Nuclear Collisions of High Energy

> tions of emission of the secondary particles may be useful for the verification of the statistical theory of the multiple production of pairs. For this purpose, it is essential to investigate the elementary collisions of nucleons and pions with nucleons. Moreover, it is necessary to take into account the possible existence of ...gular correlations which are connected with the conservation laws. The authors thank E. V. Yesin, T. V. Pokidov, L. I. Fedorov and M. I. Filippov for their participation in carrying out measurements and D. S. Chernavskiy for his discussion of the results of this paper. There are 1 figure and 4 references, 2 of which are Soviet.

ASSOCIATION: Ob"yedinennyy institut yadernykh issledovaniy

(United Institute for Nuclear Research)

SUBMITTED:

May 31, 1958

Card 3/3

21(7) AUTHORS:

SOV/56-36-3-6/71 Bayatyan, G. L., Gramenitskiy, I. H., Momofilov, A. A., Podgoretskiy, M. I., Skzhipchak, E. S.

The Production of π^{0} -Mesons in the Interaction Between Protons TITLE:

With Energies of ~ 9 Bev and Photoemulsion Nuclei (Generatsiya π^0 -mezonov pri vzaimodeystviyakh protonov s energiyey ~ 9 BeV

s yadrami fotoemul'sii)

Zhurnal eksperimental noy i teoreticheskoy fiziki, 1959, PERIODICAL:

Vol 36, Nr 3, pp 690-693 (USSR)

ABSTRACT: For the purpose of solving the problem of the interaction of

high-energy particles, it is of interest to know the energy portion k carried off by secondary π -mesons. Grigorov and Murzin (Ref 1) determined k as amounting to $\sim 30\%$ for inferaction between cosmic particles (E $\sim 10^{10}$ ev) and light nuclei. The present paper deals with investigations of the average energy of π -mesons produced by $\sim 9~{\rm Bev}$ protons on photoemulsion nuclei. NIKFI emulsions of the type R (450 μ) were used. Proton irradiation was carried out on the synchrophaso-

tron of the OIYaI. Investigation was indirect; the electronpositron pairs were investigated which had been produced by

the γ -quanta originating from π^0 -decay. For $R = n_{\pi^0}/n_g$ an Card 1/2

The Production of π^0 -Mesons in the Interaction Between Protons With Energies of ~ 9 Bev and Photoemulsion Nuclei

estimate is R \sim 0.5. Figure 1 shows the measured distribution of the angles of emission of electron-positron pairs, of the fast charged particles of stars, found by prolonging the traces of primary protons and of stars, found by following the fast secondary particles. For $\overline{n_s'}$ and $\overline{N_h}$ 4.3 ± 0.2 and 7.8 ± 0.7 is obtained, which agrees well with the values of reference 4. The mean energy of π° -mesons is determined from $f = \overline{E}_{\pi^{\circ}}/\overline{E}_{\gamma}$, for $f = 1.8 \quad \overline{E}_{\pi 0} = 750 \pm 180 \text{ MeV}$ is obtained. The mean energy generated by a π -meson, according to $\overline{E}_{\pi} = 3/2 \cdot (n_{g} - \alpha) \overline{E}_{\pi 0}$, becomes $\overline{E}_{\pi} = 3.0\pm0.7$; a more exact estimate gives 2.5 ± 0.6 . The energy portion k carried off by π -mesons therefore amounts to $0.33\pm0.08 \le k\le 0.27\pm0.07$. In conclusion, the authors thank ii. Ya. Danysh for discussing results, and V. P. Solomakhina for assisting in the work of evaluation. There are 2 figures and 8 references, 5 of which are Soviet.

ASSOCIATION: Ob"yedinennyy institut yadernykh issledovaniy

(Joint Institute for Nuclear Research)

SUBMITTED: July 28, 1958

Card 2/2

84391

\$/056/60/039/004/009/048 B004/B070

24.6900 AUTHORS:

Van Shu-fen', Vishki, T., Gramenitskiy, I. M., Grishin,

V. G., Dalkhazhav, N., Lebedev, R. M., Nomofilov, A. A.,

Podgoretskiy, M. I., Strel'tsov, V. N.

TITLE:

Inelastic Interactions of 9 Bev Protons With Nucleons

PERIODICAL: Zhurnal eksperimental hoy i teoreticheskoy fiziki, 1960,

Vol. 39, No. 4(10), pp. 957-960

TEXT: In an earlier work (Ref. 1), the authors carried out the identification of particles and the measurement of their energies only for slow particles. In the present work, the study of pp and pn interactions is continued under conditions permitting the measurement of multiple scattering of fast particles. An HUKQU-P (NIKFI-R) emulsion pile was irradiated by 9-Bev protons from the proton-synchrotron of the authors' institute. The inelastic pp (161 events) and pn (94 events) interactions were selected according to the criterion described in Ref. 1. The average number of charged particles in pp interactions was 3.25±0.10

Card 1/3

84391

Inelastic Interactions of 9 Bev Protons With Nucleons

\$/056/60/039/004/009/048 B004/B070

and in pn interactions 2.58±0.14. The identification was made according to Ref. 3 by means of the function $g/g_0 = f(p\beta)$ for pions and protons. The identification was not certain in the range $(1.5 \le p\beta \le 2.5 \text{ Bev/c})$ where the curves for protons and pions intersected one another (Table 1). The angular distribution of the secondary protons (in c.m.s.) from pp interactions was strongly anisotropic; the same was true for the pions (Fig. 2). The momentum distribution is shown only for the protons emitted backwards (Fig. 3), because due to spurious scattering only the lower limit of p β could be determined for forward emission. Fig. 4 gives the angular distribution of protons in pn interactions. Since there is no difference in the values of angular distribution and energy for pp and pn interactions, the authors treat the two together for higher statistical accuracy. The values of \overline{p} , \overline{p}_1 , and \overline{p} for protons and pions are given in Table 2 for lower (n = 2,3,4) and higher (n = 5,6,7) multiplicities. The

values of $\alpha=\sqrt{\frac{12}{p_1^2}/2}$ for the lower and higher multiplicaties are given in Table 3. The data show that the character of the interaction is only slightly affected by the number of the secondary charged particles.

Card 2/3

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Inelastic Interactions of 9 Bev Protons With Nucleons

S/056/60/039/004/009/048 B004/B070

The authors thank D. I. Blokhintsey and V. I. Veksler for discussions. There are 4 figures, 3 tables, and 7 references: 6 Soviet and 1 US.

ASSOCIATION: Ob"yedinennyy institut yadernykh issledovaniy (Joint Institute of Nuclear Research)

SUBMITTED: May 12, 1960

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Card 3/3

AUTHORS: Gramenitskiy, I.M., Korbel, Z., and Rob, L.

TITLE: Determination of the Sign of Particles Recorded in an

Emulsion

PERIODICAL: Pribory i tekhnika eksperimenta, 1961, No.1, pp.42-44

TEXT: A stack of emulsions was placed in the internal proton beam of the 9 GeV synchrophasotron. The magnetic field at the stack was about 1.2 koersted, and a measurement was made of the deflection of the secondary charged particles by the magnetic field. The ratio of the change in the direction of a track due to the magnetic field $\Theta_{\rm M}$ and due to multiple scattering $\Theta_{\rm K}$ is given by:

 $\Theta_{\rm M}/\overline{\Theta}_{\rm K} = 3.5 \times 10^{-5} \, \rm Hg \, / \overline{t}$

where H is the magnetic field in koersted, t is the distance in cm, and β is the ratio of the velocity of the particle to the velocity of light. For large energies ($\beta \rightarrow 1$) the ratio is a function of H and t only. A reliable determination of the sign Card 1/4

Determination of the Sign of Particles Recorded in an Emulsion of the particles can be made when $O_M/O_K >\!\!\!> 1$. However, this requires fields of a few tens of koe and track lengths of some tens of cms. However, it is often sufficient to consider the statistical distribution of the particles over the signs. It is then sufficient to use much smaller track lengths and to determine the distribution of the quantity

$$Y = O_M / \overline{O}_K \sqrt{t}$$

C.C. Dilworth et al. (Ref.2) and C.C. Dilworth et al. (Ref.3) have determined the signs of charged particles, using emulsions placed in a magnetic field of 34 koe. They have measured the angles O₁ for successive cells over a total length t, and calculated the quantity

$$\gamma = \sum o_i / \sum_i o_i, \quad \sqrt{t}$$

Their results show that this method can be used to determine the signs of charged particles. However, the present authors point Card 2/4

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000516520009-3"

Determination of the Sign of Particles Recorded in an Emulsion out that the above method is sensitive to C-distortions which may imitate magneyic deflections. In the case of an emulsion irradiated with a well-collimated beam of high-energy particles, the effect of the distortions may be minimised by measuring the angles Θ_M of secondary particles relative to the beam axis, as indicated by V.I. Veksler. The present authors have used a stack of HUK¢N-P (NIKFI-R) emulsions containing 10 x 20 x 0.04 cm3 Secondary tracks produced on interaction between the plates. primary protons and the emulsion nuclei were selected subject to the following conditions: a) the dip angle must be less than 40, b) the magnitude of $p\beta$ as estimated from multiple scattering must be of the order of 1-2 GeV/c, and c) the angle between t c) the angle between the primary track and the secondary track in the plane of the emulsion must be less than 30°. 20 secondary tracks were measured (total length 155 x 3 cm). It was found that statistical determination of the signs of the particles was possible with $t\sim 6\text{--}10~\text{cm}.$ The following results were obtained: $|\gamma| = 0.45 \pm 0.04$, $\gamma_{\perp} = +0.46 \pm 0.04$, and $\gamma = -0.44 \pm 0.08$. Card 3/4

Determination of the Sign of Particles Recorded in an Emulsion The theoretical values of these quantities (including multiple scattering effects) are 0.47, +0.48 and -0.45 respectively. With fields higher by a factor of 5, momenta of fast particles could also be determined.

Acknowledgements are expressed to M.Ya. Danysh, V.B. Lyubimov, M.I. Podgoretskiy for valuable advice, and to A.I. Maklachkova for taking part in the measurements.

There are 2 figures and 3 references: 1 Soviet and 2 non-Soviet.

ASSOCIATION: Ob'yedinennyy institut yadernykh issledovaniy

(Joint Institute of Nuclear Research)

SUBMITTED: January 6, 1960

Card 4/4

GRAMENITSKIY, I.M.; DREMIN, I.M.; MAKSIMENKO, V.M.; CHERNAVSKIY, D.S.

Nucleon-nucleon interaction at 9 Bev. Zhur. eksp. i teor. fiz.
40 no.4:1093-1100 Ap '61. (MIRA 14:7)

1. Fizicheskiy institut imeni P.N. Lebedeva AN SSSR.
(Nuclear reactions) (Nucleons)

GRAMENITSKIY, I. M., ZVANOVSKAYA, I. A., KANAREK, T., MARTINOV, A. S., OKHRIMENKO, L.S., PROKESH, A., TIKHONOVA, L. A.

"Cross-Section of the Gerneration of //"-Mesons in the Coulomb Field of the Xenon Nucleus at the Momentum of Primary // -Mesons 9 Gev/C"

report presented at the Intl. Conference on High Energy Physics, Geneva, 4-11 July 1962

Joint Inst. for Nuclear Research Lab. of High Energies, Dubna, 1962

GRAMENITSKIY, I. M., IVANOVSKAYA, I. A., KANAREK, T., MARTINOV, A. S., OKHRIMENKO, L. S., PROKESH, A., STRUGALSKIY, S. S., TIKHONOVA, L. A. and CHUVILO, I. V.

"Neutral Strange Particles Production on Xenon Nuclei in the 9 Gev/C \mathcal{I} —Meson Beam"

report presented at the Intl. Conference on High Energy Physics, Geneva, 4-ll July 1962

Joint Institute for Nuclear Research Laboratory of High Energies

ACCESSION NR: AP4042562 .

s/0056/64/046/006/2023/2027

AUTHORS: Gramenitskiy, I. M.; Ivanovskaya, I. A.; Kanarek, T.; Okhrimenko, L. S.; Prokesh, A.; Tikhonova, L. A.

and the state of t

TITLE: Investigation of the reaction $\pi^- + Xe \rightarrow \pi^- + \pi^0 + Xe$ for 9 GeV/c primary negative pions

SOURCE: Zh. eksper. i teor. fiz., v. 46, no. 6, 1964, 2023-2027

TOPIC TAGS: pion, pion interaction, pi meson product, negative pi meson, neutral pi meson, xenon, Coulomb field

ABSTRACT: The production of negative and neutral pions in the interaction between negative pions and nuclei, with small momentum transfer to the recoil nucleus, was investigated in a xenon bubble chamber. The greatest interest in these reactions lies in the process of producing a neutral pion in a Coulomb field, for this reaction can yield information on the interaction between pions and gamma rays. The se-

Card 1/2

ACCESSION NR: AP4042562

lection criteria and the measurement procedures and the data reduction procedure are described in detail. An upper limit of 1.0 + 0.2 mb is estimated for the cross section for production of neutral pions in the Coulomb field of the xenon nucleus. This estimate does not agree with results by others and possible reasons for the discrepancy are suggested. "The authors are grateful to Ye. V. Kuznetsov for calling their attention to the topic, to M. I. Podgoretskiy and A. S. Marty*nov for helpful discussion, and to the staff of technicians that took part in the scanning and measurement." Orig. art. has: 3 figures and 4 formulas.

ASSOCIATION: Ob"yedinenny*y institut yaderny*kh issledovaniy (Joint Institute of Nuclear Research)

SUBMITTED: 19Jan64

DATE ACQ:

ENCL: 00

SUB CODE: NP

NR REF SOV: 003

OTHER: 003

Card: 2/2

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000516520009-3"

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L 2120.65 EWT(m) DIAAP/AFWL/SSD/ESD(t)
ACCESSION NR: AP4046389 S/0056/64/047/003/0801/0805

AUTHORS: Gramenitskiy, I. M.; Okhrimenko, L. S.; Slovinskiy, B.; Strugal'skiy, Z. S.

TITLE: Estimate of the cross section for the charge exchange of negative pions on quasi-free protons at 9 GeV/c

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 47, no. 3, 1964, 801-805

TOPIC TAGS: charge exchange, pion proton scattering, exchange cross section, elastic scattering, bubble chamber

ABSTRACT: In view of the scarcity of data on the exchange scattering of negative pions by protons in the energy region of several GeV, the authors investigated the exchange scattering of 9 GeV/c negative pions by quasi-free protons in a xenon bubble chamber, with an aim at investigating the charge-exchange reaction

Card 1/3

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000516520009-3"

ACCESSION NR: AP4046389		•	2
lova and G. Stroykova for help with t figures, 4 formulas, and 1 table.	he work." Orig.	art. has:	3
ASSOCIATION: Ob"yedinenny*y institut (<u>Joint Institute of Nuclear Researc</u> h)	yaderny*kh issle	dovaniy	
SUBMITTED: 21Mar64		ENCL:	00
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GRAMENITSKIY, I.M.; MAKSIMENKO, V.M.; MIKHIN, A.I.

Ninth International Conference on High-energy Physics. Usp.
fiz. nauk 83 no. 1:183-190 My '64.

(MIRA 17:6)

EWT(m)/EPA(w)-2/EWA(m)-2Pb-4/Pab-10 IJP(c)/AFWL/ SSD/BSD/ASD(a)-5/AFMDC/AFETR/ESD(t) ACCESSION NR: AP4038551 8/0053/64/083/001/0183/0190

Gramenitskiy, I. M.; Maksimenko, V. M.; Mukhin, A. I. AUTHOR:

TIME: Ninth international conference on high energy physics

Sanc E: Uspekhi fizicheskikh nauk, v. 83, no. 1, 1964, 183-190

LOPLC TAGS: cosmic ray, high energy particle, pion, muon, muon capture, nucleon interaction, K meson

ABSTRACT: The Ninth international conference of Soviet-block experts on high-energy physics was held in Krakew, Poland on 24--26 September 1963 and was devoted essentially to interactions of nucleons and nucles with particles of energies ranging from several to several randred GeV. Three sessions were devoted to accelerator results, two several randred GeV. Three sessions were devoted to accelerator results, two semilinary results, one to methods, and one in individual problems in the theory of high-energy particle interactions. It was attended in the scientists (Acad. Sci. SSSR - 9, Joint Inst. of Nuc. Res. - 10, Pulgaria - 4, Hungary - 5, DDR - 9, China - 2, Poland - 60, Rumania - 60, and Gzechoslovakia - 61. The conference was opened by Prof. M. - 6, and Czechoslovakia - 6). The conference was opened by Prof. M. Miesowicz, followed by a large survey paper by Ye. L. Feynberg (see Card 1/4

L 20208-65 ACCESSION NR: AP4038 351 Ye. L. Feynoerg and D. I. Chernavskiy, UFN v. 82 (1), 3, 1964). The reported papers are: G. I. Budker (Novosibirsk) - on the small high-current accelerator. A. I. Mukhin (Dubna) - muon capture by nuclei. Yu. M. Kazarinov (Dubna) - phase shift analysis of NN scattering. V. . Yevseyev et al. - capture of polarized \u00ed mesons by Ca40. 0. A. Zaymi oroga et al. - nuclear capture of muons in He?. Yu. M. Kazarino e al. - elastic NN interaction below 1 GeV. .. Such zewska, Ga-Jewski, and E. Zakrzewski (Warsaw) - several communications on fragme-l hyperfragments. T. Visky (Bucharest) - production of subbar-sitive pions. T. Hofmokl (Warsaw) - interaction of 3.0 GeV/c ant protons with protons. K. Lanmus (Berlin) - π^+ p interaction et 4.6 TeV/c. M. Bardadin (Warsaw) - π p interactions with n 6 charrticles at 9.9 GeV/c. A. Eskrais (Krakow) - secondary stars neutrons in hydrogen bubble chamber bombarded by 10.6-GeV/c π^{*} where the section at 7 GeV. (is rife.) - neutral pion production in π N interactions. A. Mihul (Bucharest) - π p reaction at low momentum transfer. E. Balia (Bucha-Card 2/4

L 20208-65 ACCESSION NR: AP4038551

19

rest) - analysis of π p interaction at 7 GeV. E. Loskiewicz (Krakow) - production of neutral pions in xenon bubble chamber by 9 GeV/c $\pi^$ mesons. I. Gramenitskiy (Dubna) - generation of neutral pions by negative pions in the Coulomb field of the xenon nucleus; scattering of negative pions by quasi-free neutrons and charge exchange of negative pions by quasi-free neutrons and charge exchange of negative rions by quasi-free protons. R. Sosnowskii (Warsaw) - production of controlled in π p interactions. F. Runtee (Yorkow) - strange (Trep. 11 or by 16 GeV/o negative plants (Σ. Moroz (LVE wildi, Dubna) - possible system of isobar states and their transition Schemes. E. Skrzypczak (Warsaw) - interaction between 24 GeV protons and 17 GeV pions. Prof. M. Miesowicz, Prof. E. Gierula, S. Krzywdand K. Zaleski (Krakow) - several reports on nuclear interadditions in emulsions exposed on balloons at high altitudes. V. M. Maksimenko (report of FIAN group headed by N. A. Dobrotin) - momentum spectrum of secondary pions generated in interactions with average energy 220 GeV. S. A. Slavatinskiy and I. N. Fetisov (same FIAN group) - upper limit of KO meson and hyperon production in interactions with nucleons of average energy 300 GeV. V. Ya. Shestoperov (report of group headed by N. L. Grigorov, Moscow, MGU) - inelastic Card 3/4

ACCESSION NR: AP4038551

interactions between nucleons and nuclei at x 10¹² - 10¹³ eV. Yu. A. Smorodin.et al. (Moscow, FIAN) - results of production of electron-photon cascades in air at 5 x 10¹⁰ -- 10¹² eV. N. M. Nesterova (group headed by A. Ye. Chudakov. Moscow, FIAN) - primary cosmic radiation and search for high-energy photons. A. Zawadaki (Lodz) - same but the result of the control of the contr

GRAMENITSKIY, I.M.; SAVICH, A.A.; YUROVA, K.S.

Effect of various intravenously introduced gases on the organism.

Funk. org. v usl. izm. gaz. sredy 3:53-59 '64. (MIRA 17:11)

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A. Duasi-elastic Pi (sup -)-n	interactions at 3 GeV	
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GRAMENITSKIY, I.M.; DREMIN, I.M.; CHERNAVSKIY, D.S.

Note on \mathcal{I} -p-interaction at an energy of 7 Bev. Zhur.eksp.i teor.fiz. 41 no.3:856-860 S '61. (MIRA 14:10)

1. Fizicheskiy institut im. P.N.Lebedeva AN SSSR i Ob"yedinennyy institut yadernykh issledovaniy.

(Mesons)

VISHKI, T.; GRAMENITSKIY, I.M.; KORBEL, Z.; NOMOFILOV, A.A.; PODGORETSKIY, M.I.; ROB, L.; STREL'THOV, V.N.; TUVDENDORZH, D.; KHVASTUNOV, M.S.

Inelastic interactions between protons and nucleons at an energy of 9 Bev. Zhur.eksp.i teor.fiz. 41 no.4:1069-1075 0 '61. (MIRA 14:10)

1. Obⁿyedinennyy institut yadernykh issledovaniy. (Protons) (Nucleons)

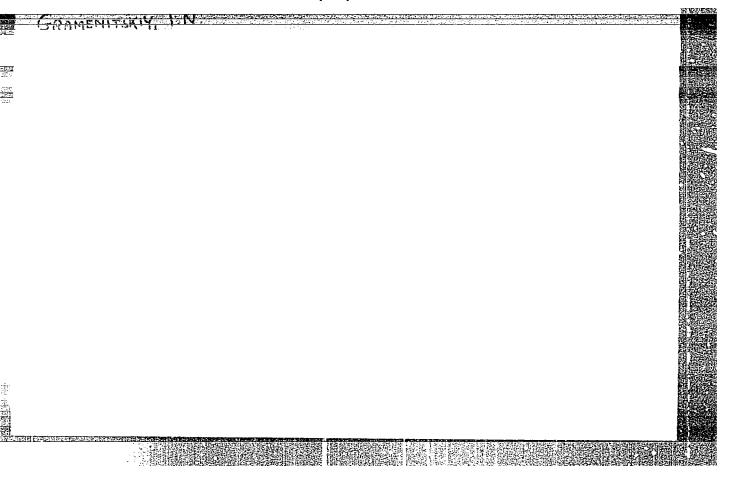
GINZBURG, V.L.; GRAMENITSKIY, I.N.; KASHLINSKAYA, S.Ye.; LIVSHITS, D.M.

Spectrographic determination of minor impurities in a few raw materials, semi-finished products and pure metals in copper and nickel production. Isv.AN SSSR.Ser.fiz.19 no.2:211-216

Mr-Ap '55.

(Tartu-Spectrum analysis-Congresses)

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TITLE: The Spectral Analysis Cast Electrodes FERUODICAL! V ab.: Materialy 1-s Sverdlovak, Metallurg: ABSTRACT: The samples are cast i meter and 40 mm long. treated by a HCl solut anoited in an a-o are an average quarts species.	Ye., Bondarenko, V.V., Vituahkina, Gramenitskiy, I.N., Livahite, J.M.	I.N., Ograsipova, I., Krysmaya, V.F. With the Use of Toskopii, 1956. ds of 7 sm in dia- o a plane and The spect to the spect of the		
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.USSR / Human and Animal Physiology. Respiration.

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Abs Jour

: Rof Zhur - Biol., No 15, 1958, No. 70235

Author

: Botvinnikov, B. A.; Ginzburg, I. Sh.; Gramenitskiy, P. M.; Ivanov, G. I.; Ivchonko, O. I.; Libin, Yu. M.; Rudnyy, N. M.; Salmanov, L. P.; Fol'dman, L. A.; Froyman, G. N.

Inst

: Academy of Sciences USSR

Titlo

: The Influence of Elevated Intrapulmenary Pressure on

Respiration and Circulation

Orig Pub

: In the collection, Funktsii organizma v usloviyakh izmenonnoy gazovoy srody, Moscow-Leningrad, AN SSSR, 1955, No 1,

118-160

Abstract

: The experimental arrangement permitted elevating the pressure on inspiration and expiration either separately or conjointly. In acute and chronic experiments on dogs, recordings were made of the thoracic and abdominal breathing, of the pressures in the intervalvular space

Card 1/3

73

USSR / Human and Animal Physiology. Respiration.

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Abs Jour : Rof Zhur - Biol., No 15, 1958, No. 70235

(in the respiratory tract) and in the abdominal cavity, and also of ventilation and of arterial and venous blood prossures. Upon elevation of the pressure during expiration, there was a considerable distortion of the theracic cago and abdomen and a diminution in pulmonary ventilation due to sharp reduction in respiratory rate; there was an accoloration in the enset of , and a diminition in the depth of, inspiration, with prolongation of the expiratory phase; there was also a reduction in the average level of arterial prossure, an increase in its respiratory fluctuations, a slowing of the heart rate, and the appearance of arrhythmias. With clovated pressure in both expiration and inspiration, phenomena similar to those described above progressed to the point of apnea. The degree and character of the changes of respiration depend on the ratio of the increased pressures in expiration and inspiration.

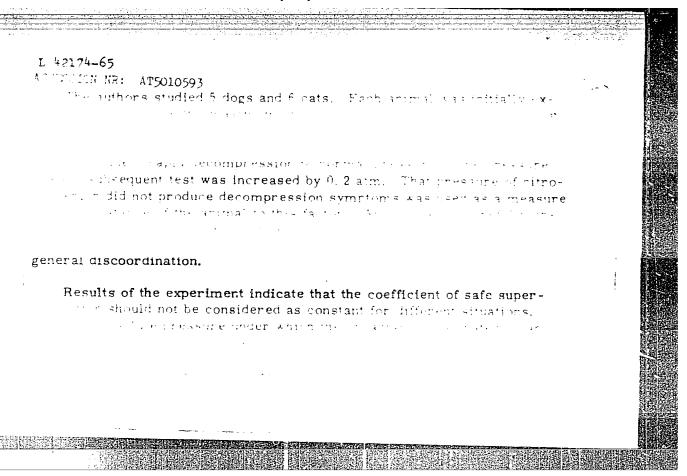
Card 2/3

Changes in the value of maximum permissible oversaturation of the body with nitrogen in multiple repeated experiments. Pat. fiziol. i eksp. terap. 5 no.4:50-53 Jl-Ag '61. (MIRA 14:9)

1. Iz Voyenno-meditsinskoy ordena Lenina akademii imeni S.M.Kirova i Instituta evolyutsinnoy fiziologii imeni I.M.Sechenova (dir. - chlen-korrespondent AN SSSR prof. A.G.Ginetsinskiy).

(DECOMPRESSION SICKNESS) (NITROGEN IN THE BODY)

EPF(c)/EPF(n)-2/EPR/EWG(a)-2/EW3(c)/EWG(j)/EWG(r)/EWG(v)/EWT(1)/ Phan/Fear Traction Flore AFFT I/AFMIC/ESD. " - COMPOS EMP(t) TIPINITAPOT DEZJE บ เข้า เลาสิกา เดาส China and An work With AUTHOR: Brestkin, A. P.; Gramenitskiy, P. M.; Sidorov, N. Ya. TITLE: Investigation of the safe supersaturation of the organism by inert gasses wier different pressures SOURCE: AN SSSR. Institut evolyutsionnoy fiziologii. Funktsii organizma v usloviyakh izmenennoy gazovoy sredy, v. 3, 1961, 16-24 TOPIC TAGS: respiration, decompression, respiration supersaturation, inert gas, nitrogen ABSTRACT: In studying the mechanism of development, and particularly the prochallenges of decompression disruptions, it is important to letermine that asset tration point by inert gasses which leads to the first symptoms of so twice of disruption. In experimentally determining the level of a given or outside and assaying its quantitative characteristics, it is and the emisident the specific nature of supersonal content as a figure so-As in 14 the formation of gas outside and a consideration Software agardsm. Card 1/3

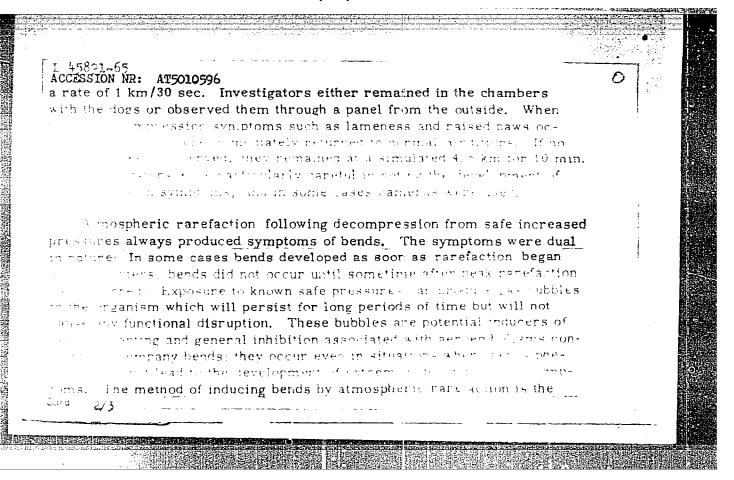


L 42174-65 ACCESSION NR: AT5010593 curately determined as a function of the relationship between the pressure of the inert pas and the surrounding pressure following decompression rather than as a function of the difference between these two values. The conception that the limit is constant is incorrect, since when the pressure of a dissolved inert gas is increased, the value for the limit is also sharply increased. Conversely, when the pressure of a dissolved inert gas is inreased, the coefficient of safe supersaturation decreases, a relationship which is in agreement with the results of other investigations. orig. art. has 2 formulas and 2 tables. ASSOCIATION: none SUBMITTED: 00 ENCL: CO SUB CODE: PH, LS NO REF SOV: 009 OTHER: 004 ATD PRESS: 3240-F 1300

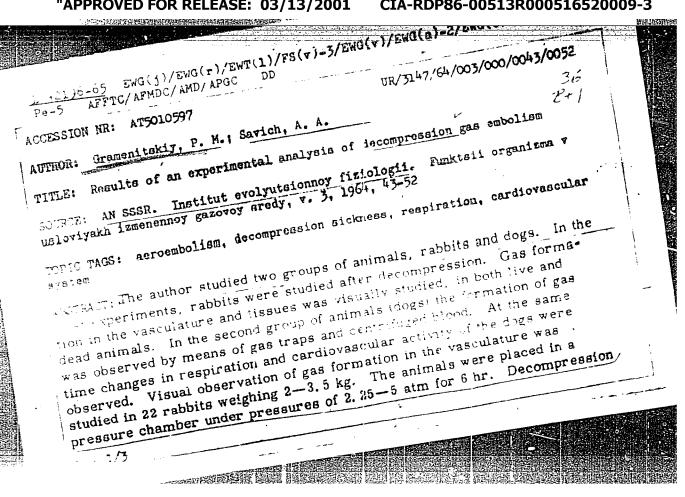
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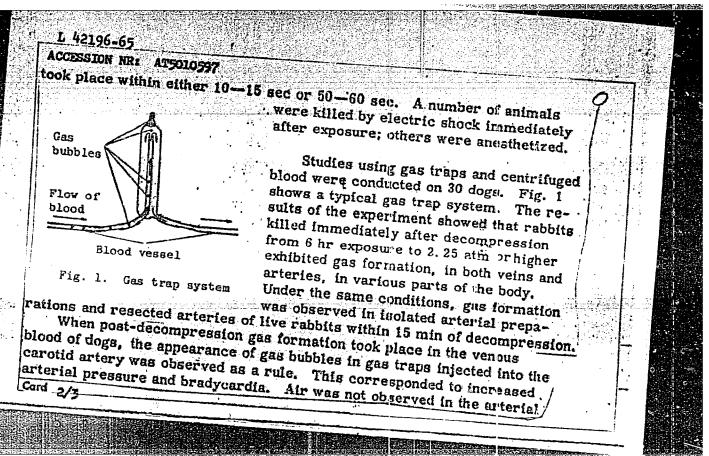
1. 45891-65 = EWG($\frac{1}{\text{EWG(r)}/\text{EWT(1)}/\text{FS(r)}-3/\text{EWG(r)}/\text{EWG(a)}-2/\text{EWG(c)}$ = Pb=4/P6= ACCESSION NR: AT5010596 AFFTC/AFMDC/ UR/3147/64/003/000/0035/0042 AMD/APGC AUTHOR: Gramenitskiy, P. M.; Savich, A. A. B+1 TITLE: Provoking bends in animals exposed to increased pressures by subsequently exposing them to simulated high altitude SOURCE: AN SSSR. Institut evolvutsionnov fiziologii. Punktaii organizma v usloviyakh izmenennoy gazowoy sredy, v. 3, 1964, 35-42 TOPIC TAGS: bends, decompression sickness, pressure chamber, dog, aeroembolism, respiration ABSTRACT: Experiments were conducted with 9 dogs on which determinations of , for apply of permissible supersal manifest of a contract of a contract weeks and the exercise, the unfed dogs were exposed to pressure to a thamber for 4 hr. Each dog was exposed to a pressure known to be less than that which would produce decompression symptoms. These values varied from 1. 2 to 2.6 atm in various experiments. After a 4-hr exposure, the dogs were rapidly decompressed (50-80 sec) to normal pressure and immediately examined. After 15 mm to 1 hr 45 min, the gard exposed to rarefied atmospheres corresponding to 4.5 km, at



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ACCESSION NR: AT5010598	UR/3147/64/003/000/0053/0059
UTHOR: Gramenitskiy, P. M.; Sav	ich, A. A.; Yurova, K. S.
ITLE: The action of various int	ravenously injected gasses on the organism
OURCE: AN SSSR. Institut evolyuseloviyakh izmenennoy gazovoy sred	And de
MOPIC TAGS: intravenous gas injection	ction, aeroembolism, decompression sickness
ABSTRACT: The authors studied the dioxide, nitrogen, and helium on experiments were conducted on runder hexenal anesthesia. A kymand blood pressure in the left fent nto the right femoral vein for the cas could be injected into the vein of acute experiments, animals braixtures when gas was injected.	se effects of intravenously injected oxygen, carbon 50 cats and 18 rabbits. Fifteen chronic abbits. Acute experiments took place nograph was used to record respiration ional artery. A canule was introduced injection of gases, and the rate at which is was accurately regulated. In a number eathed pure oxygen or helium-oxygen In such cases tracheotomies were conby means of a small valve which was con-
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ACCESSION NR: AT5010598	4.
ected to the tracheotomy tube. In 14 experiments a comparative analysis the reaction of animals to the intravenous injection of gasses was con-	0
and on animals with intact nervous systems and on animals with respected	į
xygen-mixture injections. The rate of which groups were	
repended upon the objective of the experiment of chronic amount	
s پیمان پیمان s were injected into the auricular vein of rabbits and their علی المان الما	:
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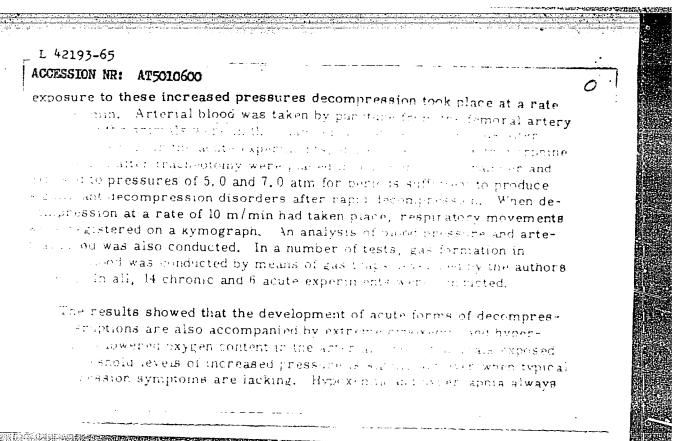
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recompression disruptions.	Orig. art. has 4 lightes.		
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42194-65 EWG(j)/EWG(r)/EWT(1)/FS(v)-3/EWG(v)/EWG(a)-2/EWG(c)AFFTC/AFMDC/AMD/APGC DO 4. 1 1 VOI ATS010599 JR/3147 '64 '003/000 '0046 '0066 ACCES: Bramenitskiy, P. M.; Yurova, K. S. Training the organism for artificial aeroembolism SOURCE: AN SSSR. Institut evolvutsionnov fiziologii, Funktsii organizma v or make tamenennoy garovoy aredy, v. 3, 1964, 60-66 TOPIC TAGS: aeroembolism, decompression sickness, decompression training ASSIRATE The purpose of this study was to determine whether it was possible to The seconds to aeroembolism by a method of systematic, multiple as it jections of air in doses which did not cause sorious functional in the idea that this regimen would be never to ever types of this factor. Tests were conducted on 32 rappits. Of this number 16 served as controls. In all cases air was injected introvenously mi per 15 sec. After injection the animals were placed on a moved for 2 hr. The results of the experiments are a comparat the of produce serious distuption, where the one eavy panting and general inhibition of the animals, and some-

L 42194-65 ACCESSION NR: AT5010599 times paralysis of the rear extremities. Doses of 1.3 ml of air brought on extremely heavy panting and inhibition of activity which was even more Almost all of the animals survived under these conditions. Doses of 1.5 ml of air usually produced convulsions and were fatal for the majority of the animals. Doses of 2.0 ml of air and greater were fatal in all cases. It should be noted that when known fatal loses of air were injected, almost all animals showed paralysis of the stremities; the front extremities were usually paralyzed but The experiment showed that multiple systematic term there it g with relatively small doses, brought a ac-... If rabbits to the harmful effects of aeroembolism. After a communitions of air in threshold doses (0, 6 mile mathematical and apply ers (file), 1.5, and even 2.0 mil of air. The score of a acre als substand fatal quantities of air. In analyzing the data, the authors draw attention to the fact that intraverous injection of air always brought on paralysis of the hindquarters. Paralysis of the rear half of the body of animals is one of the typical manifestations of severe artificial aeroembolism. It is important to remember 3/7

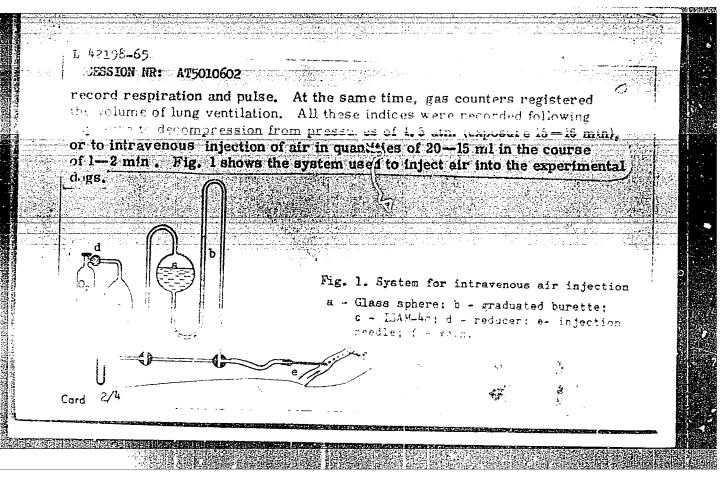
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that these very symptoms are all cression disruptions. Symptome in the explained either the symptoms are all the explained either the e	s of bends or paralysis er in terms of gas form	of the hindquarters	· ·
The authors conclude by programming for article on pression and compression and compression and compression of perfection of the art, has 3 figures and 2 to conclude by programming the programming articles.	iticial aeroembolism: wi whether animals after stance to the intraveno stance of the organism protective reactions to	ould be useful to multiple decom- us injection of gasses.	
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EWG(f)/EWG(r)/EWT(1)/FS(v)-3/EWG(v)/EWG(a)-2/EWG(c)Pb-4/ AFFTC/AFMDC/AMD/APGC DD ACCESSION NR: AT5010600 呀/3147/64/003/000/0067/0071 a lack: Gramenitakiy, P. M.; Savich, A. A. ++/ TITLE: The role of hypoxemia in the development of decompression disruptions SOURCE: AN SSSR. Institut evolyutsionnoy fiziologii. Funktsii organizma 🔻 usluviyakh izmenennoy gazovoy sredy, v. 3, 1964, 67-71 TOPIC TAGS: decompression sickness, aeroembolism, hypoxemia, hypercapnia ABSTRACT: There has been a paucity of data on how gas transport in the blood is it was during decompression disruption. Since this problem is of both . The all and practical interest, the authors studied the blood gas of animais exposed to increased pressure followed by decompression or artificial analism. Both acute and chronic experiments were conducted on male and female are shing from 12 to 30 kg. In the chronic experiments animals were A compression chamber under press par () at at the ander pressures of 4.5 atm for 35, 40, 45, and 50 mm. Following



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L 42198-65 EWG(j)/EWG(=)/EWT(1)/FS(φ)-3/EWG(φ)/EWG(α)-2/EWG(α) Pb-4/ AFFTC/AFMDC/AMD/AFGC DD ACCESSION NR: AT5010602 UR/3147/64/003/000/0079/0086 AUTHOR: Arsen'yeva, V. I.; Gramenitskiy, P. M.; Yurova, K. S. 8+1 TITLE: Comparative characteristics of the circulatory and respiratory reactions of anesthetized dogs to decompression and artificial aeroembolism SOURCE: AN SSSR. Institut evolyutsionnoy fiziologii. Funktsii organizma v usloviyakh izmenennoy gazovoy sredy, v. 3, 1964, 79-86 TOPIC TAGS: aeroembolism, respiration, circulation, decompression sickness, bends ABSTRACT: The first objective of the experiment was to study the respiratory and cardiovascular reaction of the organism to decompression and artificial aeroembolism in chronic experiments. The second objective was to eluci-"date whether training for artificial aeroembolism was effective in increasthe resistance of the organism to decompression distriction, conwhether increasing the resistance of the organism to tecompress meased its resistance to intravenous injection of gases. Experiware performed on three dogs trained to lie on one side in a special ratio and breathe through a mask. An MPO-2 oscillograph was used to



I. 42198-65 ACCESSION NA: AT5010602 The dogs were exposed to decompression, and when typical symptoms of bends occurred (paralysis of the rear limbs), the indices described were recorded for 3-5 min; the animals were then given therato, ression. In all, 187 tests were conducted with decompression of the renously injected gasses. Changes in respiration and cardiac activity of unanesthetized dogs during decompression and artificial aeroembolism were essentially simi-" string the organism for artificial aeroembolism increases the redecompression disruptions; training for decompression disrupto sees the resistance of the organism, to introduce an openions increasing the resistance of the organism to theory possion in is enuments is based primarily on conditioning the reaction of the inhe respiratory and cardiovascular systems to aeroembolisms. The authors feel that the reaction of the organism to decompression and artificial aeroembolism is conditioned by the fact that deleterious functional shifts are eliminated and protective functional shifts developed. the also suggested that these protective reactions develop more rapidly Gard gas bubbles form in the blood, Orig. art. has 7 figures.

L 42191-65 EWG(j)/EWG(r)/EWT(1)/FS(r)-3/EWG(r)/EWG(a)-2/EWG(o)AFFTC/AFHDC/AMD/APGC ACCESSION NR: AT5010604 UR/3147/54/003/000/0091/0105 A THOS: Gramenitskiy, P. M.; Sorokin, P. A. TITLE: Mechanism of changes in respiration and circulation in dogs exposed to oxygen under high pressure SOURCE: AN SSSR. Institut evolyutsionnoy fiziologii. Funktsii organizma v asloviyakh izmenennoy gazovoy sredy, v. 3, 1964, 91-105 TOPIC TAGS: oxygen poisoning, high pressure respiration, circulation pressure chamber, xygen ABSTRACT: The authors studied 17 dogs weighing 12-17 kg under urethane anesthesign administered in a 2/3 dose before and a 1/3 dose after fixation on a The average dose of administered urethane was 1.2 gakg. In cases where respiration was accelerated, morphine was administered. Heparin was also given to prevent coagulation in the blood-pressure monitoring device. After anesthesia, tracheotomy was performed and a canule was introduced into the femoral artery to measure arterial pressure. The prepared animals were placed in a pressure chamber containing a kymograph for recording respiration, lung ventilation, and blood pressure. , Card 1/4

EKG's were also recorded at various intervals throughout the experiments. In the chamber was maintained at 6 atm (except for the 3 consent the dogs breathed nearly pure exyger entraged attention to the dogs breathed nearly pure exyger entraged at the consent to the subclavian loop, or complete to the expectation prior to the action of exygen or at various periods the name. In 6 tests, the splanchmic nerves were resented and the were ligatured. In all tests, the animals were cliserved to the experiments revealed that the course of exygen poisoning in anesthetized dogs could be divided into 4 periods. The first period was characterized by decreases in lung ventilation and cardiac activity and was adaptive in nature. The vagus nerve played the basic role in these protective reactions. The second, preconvilsive period was characterized to	L 42191-65	
A total of 26 tests were conducted. In 7 tests, animals with intact A total of 26 tests were conducted. In 7 tests, animals with intact The rest is series were exposed to high oxygen pressures. In 11 tests, forwant vagotomy, resection of the subclavian loop, or complete the restation prior to the action of exygen or at various periods income, in 8 tests, the splanchmic heries were disacted and the were ligatured. In all tests, the animals were observed The experiments revealed that the course of oxygen poisoning in anesthetized dogs could be divided into 4 periods. The first period was characterized by decreases in lung ventilation and cardiac activity and was adaptive in nature. The vagus nerve played the basic role in these protective reactions. The second, preconvulsive period was characterized by hyperventilation, tachycardia, and increased arterial pressure which re-	ACCESSION NR: AT5010604	
The experiments revealed that the course of oxygen poisoning in anesthetized dogs could be divided into 4 periods. The first period was characterized by decreases in lung ventilation and cardiac activity and was adaptive in nature. The vagus nerve played the basic role in these protective reactions. The second, preconvulsive period was characterized by hyperventilation, tachycardia, and increased arterial pressure which re-	and the dogs breathed nearly pure experting and the dogs are also and the dogs and the dogs and the dogs are also and the dogs and the dogs are also and the dogs and the dogs are also also are also also also also also also also also	-
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	characterized by decreases in lung ventilation and cardiac activity and was adaptive in nature. The vagus nerve played the basic role in these protective reactions. The second, preconvulsive period was characterized by hyperventilation, tachycardia, and increased arterial pressure which re-	<u>-</u>

L 42191-65 ACCESSION NR: AT5010604 flected the participation of the adrenosympathetic system. These reactions were deleterious, since they accelerated the onset of oxygen poisoning. In turiperiod, convulsions took place. This period was characterized by a glassociateer case in cardiac rhythm which became tachveard a as soon as areas, was read thed. At the end of this period there was a parasympathetic reffect with a background of respiratory inhibition which led to bradycardia. nodal rhythm, or cardiac block. These disruptions of cardiac rhythm were reversible and could be eliminated by vagotomy. The fourth period was characterized by a sharp increase in blood pressure and accelerated cardiac activity (sinus tachycardia). When respiration had ceased, arterial pressure. fell but cardiac activity persisted. At the end of this period bradycardia and cardiac block occurred which could not be eliminated by vagotomy. It was found that preliminary resection of vagus nerves eliminated the decrease in cardiac activity during the first three periods of oxygen poisoning and therefore hastened the onset of convulsions and shortened the survival period of the animals. Preliminary ligature of the adrenals increased the survival time of dogs exposed to 6 atm oxygen and inhibited the development of convulsions. A similar but more pronounced effect was produced when splanchnic nerves were also eliminated. This effect can be explained Card 3/4

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ACC NR: AT6036540

SOURCE CODE: UR/0000/66/000/000/0134/0135

AUTHOR: Gramenitskiy, P. M. ORG: none

TITLE: Compensatory reactions of the organism occurring during the development of decompression sickness [Paper presented at the Conference on Problems of Space ** Medicine held in Moscow from 24 to 27 May 1966]

SOURCE: Konferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii, Moscow, 1966, 134-135

TOPIC TAGS: aeroembolism, decompression sickness, hypoxemia
ABSTRACT: Protective compensatory reactions of the organism to the formation of
free gas bubbles in the internal environment were studied in a series of
experiments.

Changes in the respiration and circulation of dogs, cats, and rabbits during the development of decompression sickness of varying severity were studied in acute experiments and correlated with the incidence of gas bubble formation in the blood and changes in the gas composition of the blood. The principal method used to simulate decompression aeroembolism was intravenous injection of various gases. The respiratory reactions of the cardiovascular system and shifts in the gas composition of the blood

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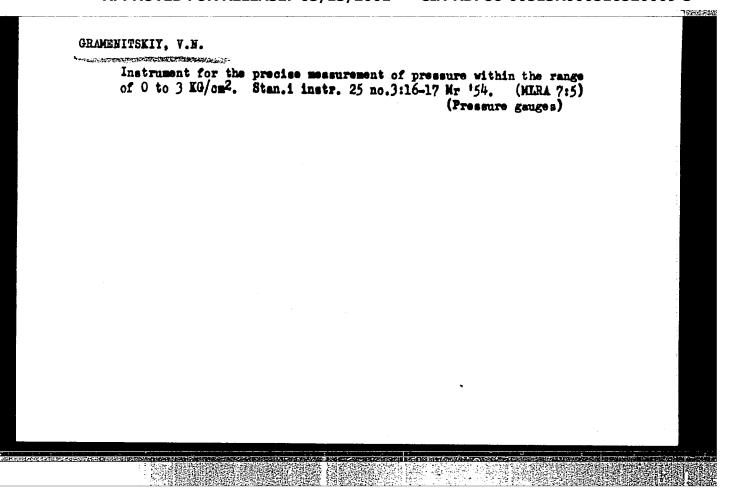
of dogs and rabbits during decompression and artificial aeroembolism were correlated in chronic experiments with changes in the general state of the organism and the development of specific decompression symptons. The effect of multiple exposures on tolerance of these effects was also studied.

The main factor in the development of decompression sickness was found to be aeroembolism of the venous component of systemic circulation and the pulmonary vessels. It was also found that the organism has powerful physiological protective mechanisms against such unusual threats as the formation of gas bubbles in the blood due to rapid decompression. The arterial hypoxemia which always accompanies these phenomena plays an important part in the development of compensatory and protective respiratory and circulatory reactions to decompression and artificial aeroembolism. It is concluded that the organism can be trained to resist both decompression and artificial aeroembolism, increased resistance to which is cross-adaptive in nature. [W.A. No. 22; ATD Report 66-116]

SUB CODE: 06 / SUBM DATE: OCHAy66

Card 2/2

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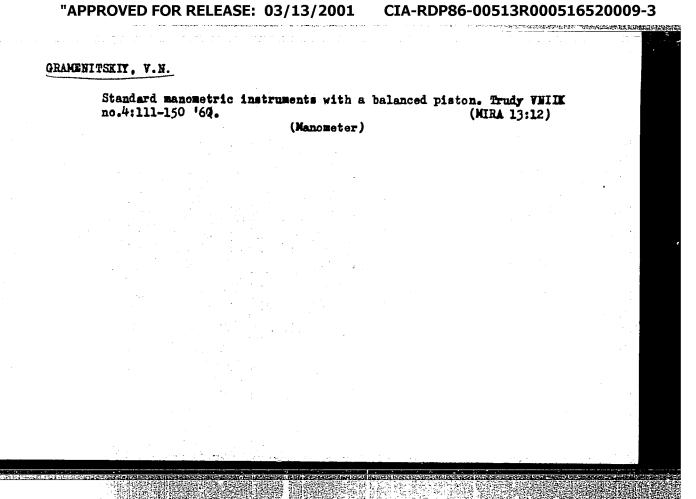
balaced piston in pressure-measurement instruments." Nos, 1958. 12 pp with Committee of Standards, Measures, and Measuring Instruments at the Council of Einisters USSR. All-Union Sci Res Inst of Meterology im D.I. Mendeleyev), 150 copies (KL, 24-58, 119)

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GRAMENITSKIY, V.N.; FROLOV, Yu.A.; KHANSUVAROV, K.I.

Grade 0,02 standard manometer with measurement limits from
0 to 2,5 kgf/cm². Izm.tekh. @o.10:19-20 N '61.

(MIRA 14:11)

(Manometer)

L 10722-63 EWT(1)/BDS/ES(w)-2 AEDC/AFFTC/ASD/SSD Pab-4 ACCESSION NR: AT3002050 S/2589/62/000/066/0014/0026

AUTHOR: Gramenitskiy, V. N.; Khansuvarov, K. I.

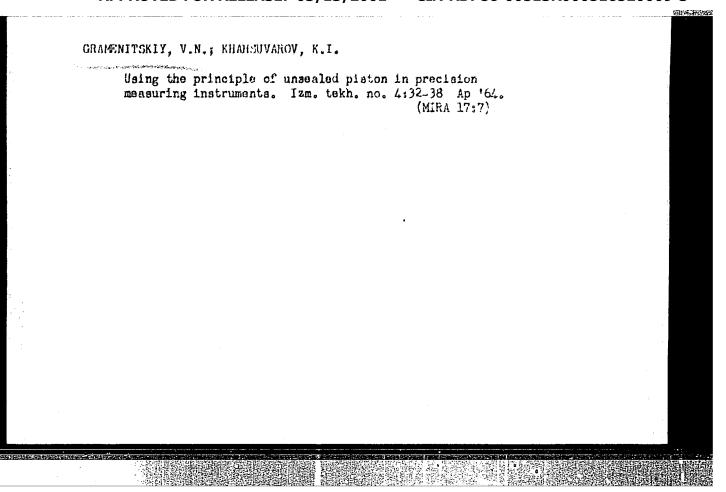
TITLE: Calibrating double-piston pressure-vacuum gauge

SOURCE: USSR. Komitet standartov, mer, i izmeritel'ny*kh priborov. Trudy* institutov Komiteta, no. 66 (126), 1962. Issledovaniya v oblasti izmereniy davleniya, raskhoda i vakuuma, 14-26

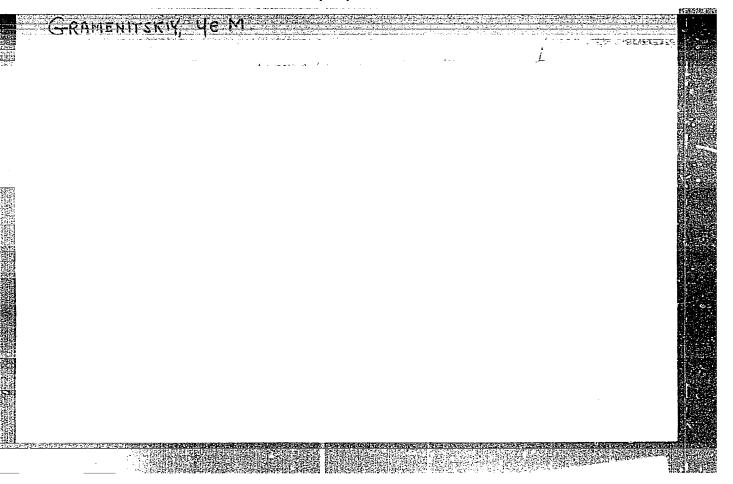
TOPIC TAGS: MVP-2.5 vacuum pressure gauge, double pistons, pressure, measuring error, standard spring pressure gauges, standard spring vacuum meters

ABSTRACT: A description and schematic diagram of the MYP-2.5 vacuum pressure gauge is given. The double-piston devices are used to measure excess, absolute, and atmospheric pressure, as well as vacuum and pressure differentials. Measurement limits were found to be from 0 to 2.5 kg/cm sup 2 for excess pressure and from 0 to 7.60 mm of mercury for vacuum. Measuring error limit was found to be less than 0.05%, if the measured size is more than 0.1 kg/cm sup 2, and less than 0.5 mm of water for values less than 0.1 kg/cm sup 2. These instruments can be used to verify standard spring pressure gauges and standard spring vacuum meters. Orig. art. has: 32 equations and 5 figures.

Card 1/2, acs. VNIIK



GRAMENITSKIY YO.N. USSR/Miscellaneous - Pressure Measurement Card : 1/1 Authors : Gramenitskiy, J. N. : An instrument for precise pressure measurement within the limits of 0 and 3 kg/cm². Title Periodical : Stan i instr., 3, 16 - 17, Mar 1954 Abstract : A pressure-measuring instrument (liquid manometer type, kerosene being used for the liquid) is described and illustrated. Diagrams; table. Institution Submitted



В

USSR / General Biology. General Histology. Abs Jour: Ref Zhur-Biol., No 23, 1958, 103261.

Author: Gramenitskiy, Ye. M.

Inst: Not given.

Title: Change in Intravital Staining of Cells of Cold
Title: Placed Animals under the Influence of Lead Nationals under the Influence Blooded Animals under the Influence of Lead Nitrate.

Orig Pub: Byul. eksperimen. biol. i med., 1958, 45, No 1, 96-

Abstract: A 1% acqueous solution of neutral red was injected into male autumn and winter frogs calculating 0.3-0.5 mg of stain per gram of weight; the injection U.D mg or stain per gram of weight; the injection was made into the body cavity. The experimental frogs were simultaneously injected in the spinal lymphatic sac with an aqueous solution of Pb(NO3)2 in a quantity of 1-10 mg/g of weight. After an in a quantity of sacrificed Region tissue the animals were sacrificed. hour, the animals were sacrificed. Brain tissue,

card 1/3

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GRAMENITSKIY, Ye.M. Seasonal changes in the protein and ribonucleic acid content of liver cells in frogs. Zhur.ob.biol. 23 no.4:311-313 Jl-Ag '62. (MIRA 15:9) 1. Sanitary Hygienic Medical Institute, Leningrad. (PROTEIN METABOLISM) (NUCLEIC ACIDS) (LIVER)

GRAMENITSKIY, Yevgeniy Mikhaylovich; MAKAROV, P.V., red.; ONOSHKO,
N.G., tekhn. red.

[Vital staining of cells and tissues under normal conditions and in pathology] Prizhisnennaia okraska kletok i tkanei v norme i patologii. Leningrad, Medgiz, 1963. 149 p.

(MIRA 16:10)

(STAINS AND STAINING (MICROSCOPY))

Cytochemical changes in nerve and liver cells of white rats in hyperthemia. Arkh. anat., gist. i embr. 44 no.6:54-61 Je '63.

(MIRA 17:7)

1. Kafedra obshchey biologii (zav. - prof. P.V. Makarov)

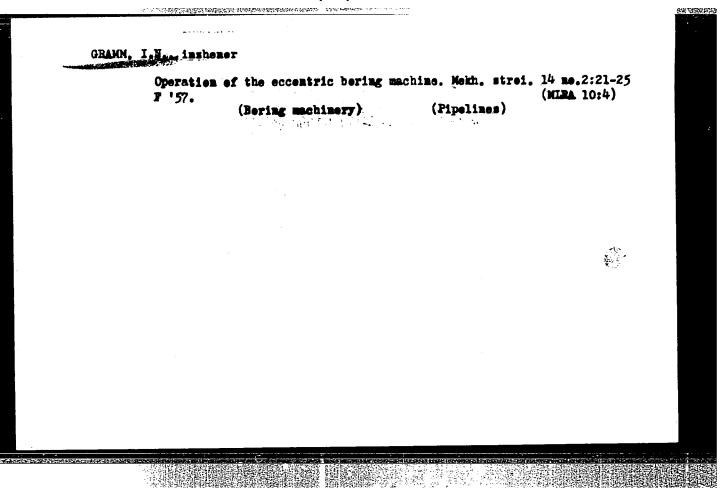
Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta.

GRAMENITSKIY, Ye.N. Significance of the Eh-pH diagram for the explanation of the paragenesis of alkali pyroxenes and amphiboles in ferruginous quartzites. Soob. DVFAN SSSR no.19:35-38 '63. (MIRA 17:9) 1. Dal'nevostochnyy geologicheskiy institut dal'nevostochnogo filiala Sibirskogo otdeleniya AN SSSR.

MATOUSEK, Vladimir, inz.; GRAMETBAUER, Petr, inz.

Use of activated silicate for increasing filler retention.
Papir a celulosa 18 no. 6: 113-117 Je '63.

1. Podnikovy vyzkum Jihoceskych papiren, pracoviste Vetrni.



GRAMM, I.N., inzh.

Trenchless laying of pipes. Biul. stroi. tekh. 15 no.5:16-17 %
158.

1. Trest Zaporoshstroy.

(Pipelines)

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Mont. 1 spets. rub. v. stroi. 22 no.12:11-13 D '60. (MIRA 13:11)

1. Trest Zaporozhstroy.

(Pipelines)
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GRAMM, I.N.; KASITSYNA, K.N., inzh., red.

["Zaporczh'ye 800" installation for trenchless pipe laying using the horizontal drilling method; work practice of the Zaporozh'ye Construction Trust of the Order of Lenin] Ustanovka "Zaporozh'e-800 dlia bestransheinoi prolladki trub metodom gorizontal'nogo bureniia; iz opyta ordena Lenina tresta "Zaporozhstroi." Moskva, Gosstroiizdat, 1962. 27 p. (MIRA 17:7)

1. Akademiya stroitel'stva i arkhitektury SSSR. Nauchnoissledovatel'skiy institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu. 2. Starshiy inzhener otdela glavnogo mekhanika tresta opyta Lenina "Zaporozhstroy" (for Gramm).

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CIA-RDP86-00513R000516520009-3

USER/Geology Apr 1948
Stratification

"Discovery of Flatygema Asiatica Rom. in the South
Tadzhik Depression," M. N. Gramm, 2 pp

"Dok Akad Nauk SSSR, Nova Ser" Vol IX, No 2

Describes two cross sections of soil stratigraphy obtained from area some 17 km to the northwest of the regional center Bal'dzhuan. Subject fossils discovered in the course of the studies. Submitted by Academician D. V. Nalivkin, 6 Feb 1948.

- 1. GRAMM, N. E.; OSIPOVA, G. A.
- 2. USSR (600)
- 4. Paleobotany Tertiary
- 7. Discovery of plant remains in the Tertiary continental deposit of southern Uzbedistan., Dokl. AN SSSR, 81, No. 6, 1951.
 Rcd. 19 March 1951

9a. Monthly List of Russian Accessions, Library of Congress, May 1952. UNCLASSIFIED.

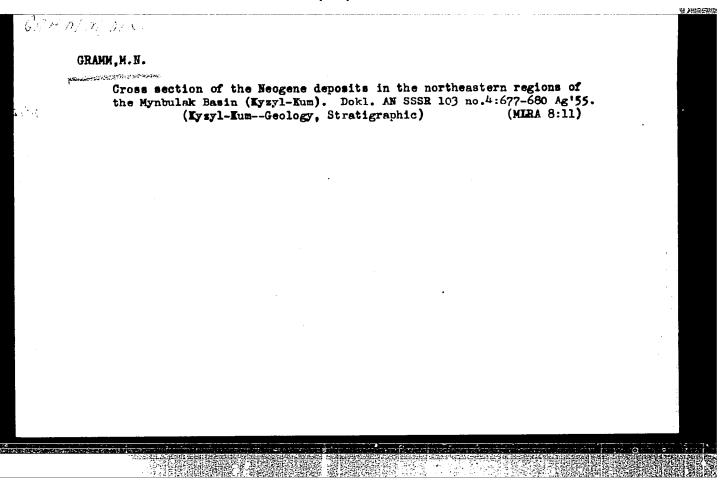
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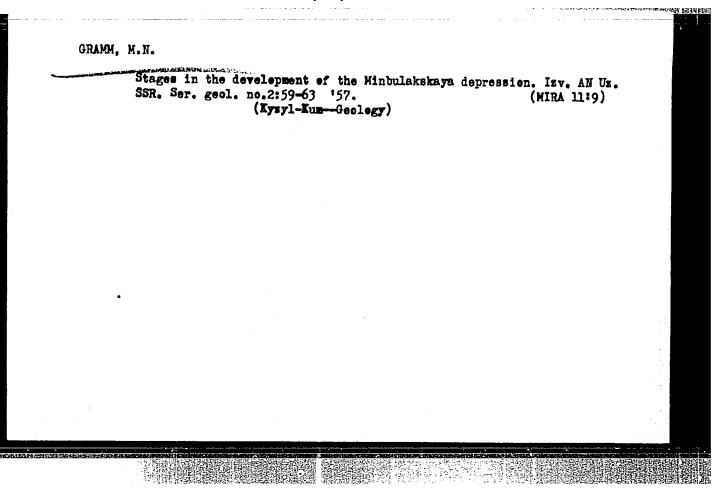
GRAMM, M. N., VASYUTINSKAYA, A. B., KVANINA, L. T, MANZHIROVA, G. A., SVESHNIKOV, P.M., TOLOKONNIKOV, V. V., FOMIN, V. M.

"Akchagyl Deposits in the Lower Reaches of the Amu-Darya" Dokl. Uz. SSR, 1953, No 12, 18-21, (Uzbekistan resume)

In 1952 in the lower reaches of the Amu-Darya during columnar drilling in a number of wells the drillers uncovered sandstone-clay deposits of the Akchagyl age with thicknesses up to several dozen meters. These deposits lie on an eroded surface of the Paleogene and are superimposed by ancient delta sedimentary deposits of the Anthropogene. The character of the ostracod fauna testifies to the strong fresh-water nature of Akchagyl gulf. (RZhGeol, No 3, 1954)

SO: W-31187, 8 Mar 55





Composition of Apsheron Ostracoda from the Sarykanysh Depression.
Uzb.geol.zhur. no.2:89-91 '58. (MIRA 12:2)

1. Institut geologii AN UzSSR i Uzbekskoye geologicheskoye upravleniye.

(Sarykanysh Depression--Ostracoda, Fossil)

PRIKHID'KO, P.L.; GRAMM, M.N.

New data on the chemical composition of salts from the salt-bearing series in the northwestern Fergana Valley. Uzb.geol.shur. no.6:63-70 (MIRA 12:4)

1. Institut geologii AN UzSSR.
(Fergana-Salta)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000516520009-3"

GRAMM, M.N.; KARGIN, I.Ye.

Strata containing Cytherissa cascusa Mandelstam in litt. in the Karakul' region. Dokl. AN Uz.SSR no.7:15-17 *58. (MIRA 11:10)

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1. Institut geologii AN UESSR i Uzbekskaya gidrogeologicheskaya ekspeditsiya. Predstavleno chelnom-kerrespondentom UESSR N.L. Korshenevskim.

(Karakul' region--Ostracoda, Fossil)